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**(54) POWER-SUPPLY  
DEVICE**

(57) Abstract:

**PURPOSE:** To certainly protect a power source, by setting a detecting means for detecting voltage and current fed to a load and the like, indirectly, and by working the protective circuit of a power source according to the detecting result.

**CONSTITUTION:** An output

controlling circuit 1 composed of an IC serves also as the protective circuit of a power source, and to the output controlling circuit 1, the base of switching transistors 3a~3b connected to the primary winding 2p of a step-up transformer 2 is connected. To a secondary winding 2s on the load side of the step-up transformer 2, a lead 4 is connected via a capacitor C1 and a resistor R1, and to a voltage detecting winding 2d, a rectifier circuit 5 is connected. Then, of the detecting winding 2d and the rectifier circuit 5, a detecting means 6 for detecting voltage fed to the lead 4, indirectly is composed. Then, by the detecting means 6, current and applied voltage are detected, and when the abnormal state of the load is detected through its detection value, then the protective circuit of the power source is worked.

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